

What is claimed is:

1        1. A fuel additive composition comprising a lithium aromatic sulfonate and  
2        an organic peroxide.

1        2. The fuel additive composition of claim 1, wherein the composition is  
2        provided in a solvent-based system.

1        3. The fuel additive of claim 1, wherein there are two organic peroxides.

1        4. The fuel additive of claim 3, wherein one peroxide is *tert*-butyl  
2        perbenzoate.

1        5. The fuel additive of claim 3, wherein one peroxide is 2-butanone  
2        peroxide.

1        6. The fuel additive of claim 1, wherein the lithium aromatic sulfonate is a  
C<sub>7-35</sub> alkylbenzenesulfonate.

1        7. The fuel additive of claim 1, wherein the lithium aromatic sulfonate is  
2        didodecylbenzene sulfonate.

8. The fuel additive of claim 2, wherein the solvent is diphenyl.

1           9. A fuel composition comprising a fuel in admixture with an additive  
2       comprising lithium benzene sulfonate and an organic peroxide, wherein the  
3       composition is provided in the fuel in an amount of 1:100 to 1:10,000 parts by weight  
4       of additive to weight of fuel.

1           10. The fuel composition of claim 9, wherein the fuel is gasoline.

1           11. The fuel composition of claim 9, wherein the fuel is diesel.

1           12. A method for operating a gasoline-powered, artificial ignition, internal  
2       combustion engine, comprising providing to said engine a fuel comprising gasoline  
3       and a fuel additive comprising a mixture of a lithium aromatic sulfonate and organic  
4       peroxide.

1           13. The method of claim 12, wherein the fuel additive is provided in a  
2       solvent-based system miscible with said gasoline fuel.

1           14. The method of claim 12, wherein the fuel comprises from 1 to 100 parts  
2       by weight of additive to 10,000 parts by weight of fuel.